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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/667,859A

DATE: 09/30/2003

TIME: 07:50:47

Input Set : A:\08341.ST25.txt

Output Set: N:\CRF4\09302003\I667859A.raw

3 <110> APPLICANT: Kubin, Marek Z.
4 Goodwin, Raymond G.
6 <120> TITLE OF INVENTION: NK Cell Activation Inducing Ligand (NAIL) DNA and
Polypeptides,

7 and Uses Thereof

9 <130> FILE REFERENCE: AMGEN-08341

11 <140> CURRENT APPLICATION NUMBER: 09/667,859A

12 <141> CURRENT FILING DATE: 2000-09-20

14 <160> NUMBER OF SEQ ID NOS: 13

16 <170> SOFTWARE: PatentIn version 3.2

18 <210> SEQ ID NO: 1

19 <211> LENGTH: 1095

20 <212> TYPE: DNA

21 <213> ORGANISM: Homo sapiens

23 <400> SEQUENCE: 1

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26 ggcatgccagg gatcagactga ccattgtggtt agcatctcg ggatgcctct tcagttacaa	120
28 ccaaacagca tacagacgaa gggttgcacgc attgcatttgcg agaagggtgct gccctcacaa	180
30 aatggatttc atcacatatt gaagtgggag aatggctctt tgccttccaa tacttccat	240
32 gatagattca gttttatagt caagaacttg agtcttctca tcaaggcagc tcagcagcag	300
34 gacagtggcc tctactgcct ggaggtcacc agtatatctg gaaaagttca gacagccacg	360
36 ttccaggttt ttgtatttga taaagtttag aaaccccgcc tacaggggca gggaaagatc	420
38 ctggacagag ggagatgcca agtggctctg tcttgcttgg tctccagggg tgccaatgtg	480
40 tcctatgctt ggtacagagg gagcaagctg atccagacag cagggAACCT cacctacctg	540
42 gacgaggagg ttgacattaa tggcactcac acatatacct gcaatgtcag caatccgttt	600
44 agctggaaa gccacaccct gaatctcact caggactgtc agaatgccc tcagaattc	660
46 agatttggc cggttttgtt gatcatcgat attctaagcg cactgttccct tggcaccctt	720
48 gcctgcttct gtgtgtggag gagaaagagg aaggagaagc agtcagagac cagtcccaag	780
50 gaattttga caatttacga agatgtcaag gatctaaaa ccaggagaaaa tcacgagcag	840
52 gaggcactt ttccctggagg gggggcacc atctactcta tgatccagtc ccagtcttct	900
54 gctcccacgt cacaagaacc tgcataataca ttatattcat taattcagcc ttccaggaag	960
56 tctggatcca ggaagaggaa ccacagccct tccttcaata gcactatcta tgaagtgatt	1020
58 ggaaagagtc aacctaaagc ccagaaccct gctcgattga gccgcaaaga gctggagaac	1080
60 tttgatgttt attcc	1095

63 <210> SEQ ID NO: 2

64 <211> LENGTH: 365

65 <212> TYPE: PRT

66 <213> ORGANISM: Homo sapiens

68 <400> SEQUENCE: 2

70 Met Leu Gly Gln Val Val Thr Leu Ile Leu Leu Leu Leu Lys Val

71 1 5 10 15

74 Tyr Gln Gly Lys Gly Cys Gln Gly Ser Ala Asp His Val Val Ser Ile

75 20 25 30

78 Ser Gly Val Pro Leu Gln Leu Gln Pro Asn Ser Ile Gln Thr Lys Val

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79	35	40	45
82	Asp Ser Ile Ala Trp Lys Lys Leu Leu Pro Ser Gln Asn Gly Phe His		
83	50	55	60
86	His Ile Leu Lys Trp Glu Asn Gly Ser Leu Pro Ser Asn Thr Ser Asn		
87	65	70	75
90	80		
90	Asp Arg Phe Ser Phe Ile Val Lys Asn Leu Ser Leu Leu Ile Lys Ala		
91	85	90	95
94	Ala Gln Gln Gln Asp Ser Gly Leu Tyr Cys Leu Glu Val Thr Ser Ile		
95	100	105	110
98	Ser Gly Lys Val Gln Thr Ala Thr Phe Gln Val Phe Val Phe Asp Lys		
99	115	120	125
102	Val Glu Lys Pro Arg Leu Gln Gly Gln Gly Lys Ile Leu Asp Arg Gly		
103	130	135	140
106	Arg Cys Gln Val Ala Leu Ser Cys Leu Val Ser Arg Asp Gly Asn Val		
107	145	150	155
110	160		
110	Ser Tyr Ala Trp Tyr Arg Gly Ser Lys Leu Ile Gln Thr Ala Gly Asn		
111	165	170	175
114	Leu Thr Tyr Leu Asp Glu Glu Val Asp Ile Asn Gly Thr His Thr Tyr		
115	180	185	190
118	Thr Cys Asn Val Ser Asn Pro Val Ser Trp Glu Ser His Thr Leu Asn		
119	195	200	205
122	Leu Thr Gln Asp Cys Gln Asn Ala His Gln Glu Phe Arg Phe Trp Pro		
123	210	215	220
126	Phe Leu Val Ile Ile Val Ile Leu Ser Ala Leu Phe Leu Gly Thr Leu		
127	225	230	235
130	240		
130	Ala Cys Phe Cys Val Trp Arg Arg Lys Arg Lys Glu Lys Gln Ser Glu		
131	245	250	255
134	Thr Ser Pro Lys Glu Phe Leu Thr Ile Tyr Glu Asp Val Lys Asp Leu		
135	260	265	270
138	Lys Thr Arg Arg Asn His Glu Gln Glu Gln Thr Phe Pro Gly Gly Gly		
139	275	280	285
142	Ser Thr Ile Tyr Ser Met Ile Gln Ser Gln Ser Ser Ala Pro Thr Ser		
143	290	295	300
146	Gln Glu Pro Ala Tyr Thr Leu Tyr Ser Leu Ile Gln Pro Ser Arg Lys		
147	305	310	315
150	320		
150	Ser Gly Ser Arg Lys Arg Asn His Ser Pro Ser Phe Asn Ser Thr Ile		
151	325	330	335
154	Tyr Glu Val Ile Gly Lys Ser Gln Pro Lys Ala Gln Asn Pro Ala Arg		
155	340	345	350
158	Leu Ser Arg Lys Glu Leu Glu Asn Phe Asp Val Tyr Ser		
159	355	360	365
162	<210> SEQ ID NO: 3		
163	<211> LENGTH: 2440		
164	<212> TYPE: DNA		
165	<213> ORGANISM: Homo sapiens		
167	<400> SEQUENCE: 3		
168	cggccttgc agctcacacgc aggcgttaac agcctcta at tgaggaaact gtggctggac	60	
170	aggttgcaag gcagttctgc tccccatcg t cctcttgc actggggact gctgagcccg	120	
172	tgcacggcag agagtctgggt ggggtggagg ggctggcctg gcccctctgt cctgtggaaa	180	

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174	tgctggggca	agtggtcacc	ctcatactcc	tcctgctcct	caaggtgtat	cagggcaaag	240
176	gatgccagg	atcagctgac	catgtggta	gcatctcg	agtgccctt	cagttacaac	300
178	caaacagcat	acagacgaag	gttacagca	ttgcatggaa	gaagttgt	ccctcacaaa	360
180	atggatttca	tcacatattg	aagtgggaga	atggctctt	gccttccat	acttccaatg	420
182	atagattcag	tttatagtc	aagaacttga	gtcttctcat	caagggcagct	cagcagcagg	480
184	acagtggcct	ctactgcctg	gaggtcacca	gtatatctgg	aaaagttcag	acagccacgt	540
186	tccaggtttt	tgtatttgat	aaagtggaga	aaccccgct	acaggggcag	ggaaagatcc	600
188	tggacagagg	gagatccaa	gtggctctgt	cttgcgggt	ctccaggat	ggcaatgtgt	660
190	cctatgctt	gtacagaggg	agcaagctga	tccagacagc	agggAACCTC	acctacctgg	720
192	acgaggaggt	tgacattaat	ggcactcaca	catatacctg	caatgtcagc	aatcctgtta	780
194	gctggaaag	ccacaccctg	aatctcactc	aggactgtca	aatgtccat	caggaattca	840
196	gattttggcc	gtttttgggt	atcatcgtga	ttctaagcgc	actgttcctt	ggcacccctt	900
198	cctgcttctg	tgtgtggagg	agaaagagga	aggagaagca	gtcagagacc	agtcccaagg	960
200	aattttgac	aatttacgaa	gatgtcaagg	atctgaaaac	caggagaaat	cacgagcagg	1020
202	agcagacttt	tcctggaggg	gggagcacca	tctactctat	gatccagtc	cagtttctg	1080
204	ctcccacgtc	acaagaacct	gcatatacat	tatattcatt	aattcagcct	tccaggaagt	1140
206	ctggatccag	gaagaggaac	cacagccctt	ccttcaatag	cactatctat	gaagtgattg	1200
208	gaaagagtca	acctaaagcc	cagaaccctg	ctcgatttag	ccgaaagag	ctggagaact	1260
210	ttgatgttt	ttccttagtt	ctgcagcaat	tctcacctt	tttgcacatc	agcatctgt	1320
212	ttggaaattt	gcacagtgg	tgacggcaca	ggagtctcta	tagaacactt	cctagtctgg	1380
214	agaggatatg	gaaatttggtt	tttgcgttat	attttgtttt	gaaaatgtatg	tctaacaacc	1440
216	atgataagag	caaggctgtt	aaataatatac	ttccaattt	cagatcagac	atgaatgggt	1500
218	ggaggggtt	ggttgcac	aaaaggccac	attccaagta	tttgcatact	agaaaagtgtt	1560
220	atgtaaatgt	tgttatttagc	atcgagattc	cctccacctg	atttcaagc	tgtcacttgt	1620
222	ttcctttct	ccccctctgt	ggttgcactgc	atttctagac	tctgcggcgc	ccaggcccat	1680
224	tttccaaagc	aagaggaagg	aatgataatg	gtgactcagg	ggaagaagaa	acagccctcc	1740
226	tctgaaagcc	tggactgtcc	ggctgtgaac	tggctggcag	gttctgcacg	tgggtgggg	1800
228	ccagggcctg	ggcttactc	aattgcagag	aaaaaaactt	ctccctgc	ctcatacctt	1860
230	tacctctggc	cagttggca	ccagggggag	tggctgaag	ggagagtaga	tggcggaaag	1920
232	caagcccatc	tctgactaga	aaaatcaccc	agagcacatg	ctgacctgat	aactgggtg	1980
234	ttgagaccag	ctttgtccat	ggtatgtatg	ttgattttag	aagacgcatt	gttagaaatc	2040
236	cattttggctt	tttcatagaa	gtggcttccc	agaggaagag	gcctctcaga	aaccatgttc	2100
238	tatataatgt	ctgactgttc	atgactgttc	cccaggatgc	acattgaagg	gagggtctcag	2160
240	gcagctgagg	gctgagaatg	aggcagtgg	aatctagaca	ctatgtgg	ttccctgagt	2220
242	cgtcaggcca	gacattcaa	caaggctgt	gggagcaggg	ctgtgactct	ggctgagccc	2280
244	aggaaagcga	caagggtgaa	ctgggagagg	acttactcag	agaccccaac	aggtgataact	2340
246	gcacaaagcc	tggttttca	atttcctac	cctgtatcta	acataggat	ttcatataaa	2400
248	acggtgat	catgcagatg	cagtctgaat	tcctgcctg			2440

251 <210> SEQ ID NO: 4

252 <211> LENGTH: 398

253 <212> TYPE: PRT

254 <213> ORGANISM: Mus musculus

256 <400> SEQUENCE: 4

258 Met Leu Gly Gln Ala Val Leu Phe Thr Phe Leu Leu Leu Arg Ala

259 1 5 10 15

262 His Gln Gly Gln Asp Cys Pro Asp Ser Ser Glu Glu Val Val Gly Val

263 20 25 30

266 Ser Gly Lys Pro Val Gln Leu Arg Pro Ser Asn Ile Gln Thr Lys Asp

267 35 40 45

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270 Val Ser Val Gln Trp Lys Thr Glu Gln Gly Ser His Arg Lys Ile
271 50 55 60
274 Glu Ile Leu Asn Trp Tyr Asn Asp Gly Pro Ser Trp Ser Asn Val Ser
275 65 70 75 80
278 Phe Ser Asp Ile Tyr Gly Phe Asp Tyr Gly Asp Phe Ala Leu Ser Ile
279 85 90 95
282 Lys Ser Ala Lys Leu Gln Asp Ser Gly His Tyr Leu Leu Glu Ile Thr
283 100 105 110
286 Asn Thr Gly Gly Lys Val Cys Asn Lys Asn Phe Gln Leu Leu Ile Leu
287 115 120 125
290 Asp His Val Glu Thr Pro Asn Leu Lys Ala Gln Trp Lys Pro Trp Thr
291 130 135 140
294 Asn Gly Thr Cys Gln Leu Phe Leu Ser Cys Leu Val Thr Lys Asp Asp
295 145 150 155 160
298 Asn Val Ser Tyr Ala Phe Trp Tyr Arg Gly Ser Thr Leu Ile Ser Asn
299 165 170 175
302 Gln Arg Asn Ser Thr His Trp Glu Asn Gln Ile Asp Ala Ser Ser Leu
303 180 185 190
306 His Thr Tyr Thr Cys Asn Val Ser Asn Arg Ala Ser Trp Ala Asn His
307 195 200 205
310 Thr Leu Asn Phe Thr His Gly Cys Gln Ser Val Pro Ser Asn Phe Arg
311 210 215 220
314 Phe Leu Pro Phe Gly Val Ile Ile Val Ile Leu Val Thr Leu Phe Leu
315 225 230 235 240
318 Gly Ala Ile Ile Cys Phe Cys Val Trp Thr Lys Lys Arg Lys Gln Leu
319 245 250 255
322 Gln Phe Ser Pro Lys Glu Pro Leu Thr Ile Tyr Glu Tyr Val Lys Asp
323 260 265 270
326 Ser Arg Ala Ser Arg Asp Gln Gln Gly Cys Ser Arg Ala Ser Gly Ser
327 275 280 285
330 Pro Ser Ala Val Gln Glu Asp Gly Arg Gly Gln Arg Glu Leu Asp Arg
331 290 295 300
334 Arg Val Ser Glu Val Leu Glu Gln Leu Pro Gln Gln Thr Phe Pro Gly
335 305 310 315 320
338 Asp Arg Gly Thr Met Tyr Ser Met Ile Gln Cys Lys Pro Ser Asp Ser
339 325 330 335
342 Thr Ser Gln Glu Lys Cys Thr Val Tyr Ser Val Val Gln Pro Ser Arg
343 340 345 350
346 Lys Ser Gly Ser Lys Lys Arg Asn Gln Asn Tyr Ser Leu Ser Cys Thr
347 355 360 365
350 Val Tyr Glu Glu Val Gly Asn Pro Trp Leu Lys Ala His Asn Pro Ala
351 370 375 380
354 Arg Leu Ser Arg Arg Glu Leu Glu Asn Phe Asp Val Tyr Ser
355 385 390 395
358 <210> SEQ ID NO: 5
359 <211> LENGTH: 1147
360 <212> TYPE: DNA
361 <213> ORGANISM: Mus musculus
363 <400> SEQUENCE: 5

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364	atgttggggc	aagctgtcct	gttcacaacc	ttcctgctcc	tcagggctca	tcagggccaa	60
366	gactgccag	attcttctga	agaagtgggt	ggtgtctcag	gaaaggctgt	ccagctgagg	120
368	ccttccaaca	tacagacaaa	agatgtttct	gttcaatgga	agaagacaga	acagggctca	180
370	cacagaaaaaa	ttgagatcct	gaattggtat	aatgatggtc	ccagttgtc	aatgttatct	240
372	tttagtgata	tctatggttt	tgattatggg	gatttgctc	ttagtagtcaa	gtcagctaag	300
374	ctgcaagaca	gtggctacta	cctgctggag	atcaccaaca	caggcggaaa	agtgtgcaat	360
376	aagaacttcc	agcttcttat	acttgatcat	gttgagaccc	ctaacctgaa	ggcccagtgg	420
378	aagccctgga	ctaatggac	ttgtcaactg	ttttgtcct	gcttggtgac	caaggatgac	480
380	aatgtgagct	acgccttttgc	gtacagaggg	agcactctga	tctccaatca	aaggaatagt	540
382	acccactggg	agaaccagat	tgacgcccgc	agcctgcaca	catacacctg	caacgttagc	600
384	aacagagcca	gctgggcaaa	ccacaccctg	aacttcaccc	atggctgtca	aagtgtccct	660
386	tgcgaatttca	gatttctgcc	ctttggggtg	atcatcgta	ttctagttac	attatttctc	720
388	ggggccatca	tttgtttctg	tgtgtggact	aagaagagga	agcagttaca	gttcagccct	780
390	aaggaacctt	tgacaatata	tgaatatgtc	aaggactcac	gagccagcag	ggatcaacaa	840
392	gggacaaaga	gaattggaca	ggcgtgttgc	tgaggtgctg	gagcagttgc	cacagcagac	900
394	tttccctgga	gatagaggca	ccatgtactc	tatgatacag	tgcaagcctt	ctgattccac	960
396	atcacaagaa	aaatgtacag	tatattcgt	agtccagct	tccaggaagt	ctggatccaa	1020
398	gaagaggaac	cagaactatt	ccttaagttg	taccgtgtac	gaggaggttgc	gaaacccatg	1080
400	gctcaaagct	cacaaccctg	ccaggctgag	ccgcagagag	ctggagaact	ttgatgtcta	1140
402	ctcctag						1147

405 <210> SEQ ID NO: 6

406 <211> LENGTH: 451

407 <212> TYPE: PRT

408 <213> ORGANISM: Artificial Sequence

410 <220> FEATURE:

411 <223> OTHER INFORMATION: Synthetic

414 <220> FEATURE:

415 <221> NAME/KEY: PEPTIDE

416 <222> LOCATION: (1)..(221)

417 <223> OTHER INFORMATION: human NAIL sequences

419 <220> FEATURE:

420 <221> NAME/KEY: PEPTIDE

421 <222> LOCATION: (222)..(451)

422 <223> OTHER INFORMATION: human Fc sequences

424 <400> SEQUENCE: 6

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430	Tyr	Gln	Gly	Lys	Gly	Cys	Gln	Gly	Ser	Ala	Asp	His	Val	Val	Ser	Ile
431						20			25				30			
434	Ser	Gly	Val	Pro	Leu	Gln	Leu	Gln	Pro	Asn	Ser	Ile	Gln	Thr	Lys	Val
435						35			40			45				
438	Asp	Ser	Ile	Ala	Trp	Lys	Lys	Leu	Leu	Pro	Ser	Gln	Asn	Gly	Phe	His
439						50			55			60				
442	His	Ile	Leu	Lys	Trp	Glu	Asn	Gly	Ser	Leu	Pro	Ser	Asn	Thr	Ser	Asn
443	65					70				75			80			
446	Asp	Arg	Phe	Ser	Phe	Ile	Val	Lys	Asn	Leu	Ser	Leu	Ile	Lys	Ala	
447						85			90			95				
450	Ala	Gln	Gln	Gln	Asp	Ser	Gly	Leu	Tyr	Cys	Leu	Glu	Val	Thr	Ser	Ile
451						100			105			110				

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